	Application No.	Applicant(s)
Notice of Allowability	10/710 257	DAMACHANDRAN ET AL
	10/710,257 Examiner	RAMACHANDRAN ET AL. Art Unit
	Khanh B. Duana	2022
	Khanh B. Duong	2822
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the amendment filed on September 14, 2006.		
2. The allowed claim(s) is/are 1,2,5,7 and 9.		
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 ☐ Notice of Infor	mal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠\Interview Sum	• •
	Paper No./Ma	ail Date <u>this paper</u> .
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🛛 Examiner's An	nendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Sta	atement of Reasons for Allowance
of Biological Material	9.	
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Application/Control Number: 10/710,257

Art Unit: 2822

DETAILED ACTION

Response to Amendment

This Office Action is in response to the amendment filed on September 14, 2006.

Accordingly, claims 3, 4, 6, 8 and 10 were canceled, claims 1 and 9 were amended.

Claims 11-20 remain withdrawn from consideration as being directed to a non-elected

invention.

Currently, claims 1, 2, 5, 7 and 9 remain active.

Response to Affidavit

The declaration filed on September 14, 2006 under 37 CFR 1.131 is sufficient to overcome the Jung reference.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Kerry Goodwin on November 25, 2006.

The application has been amended as follows:

In the claims:

Please cancel claims 11-20.

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Allowable Subject Matter

Claims 1, 2, 5, 7 and 9 are allowed.

The following is an examiner's statement of reasons for allowance: none of the prior art of record, taken alone or in combination, fairly shows or suggests all the limitations as claimed.

Re claim 1, none of the prior art of record discloses the following limitations in combination with the rest of the limitations in the claim: depositing a silicon nitride layer by means of a dual-frequency plasma enhanced CVD process, the CVD process comprising a temperature of 480°C, a low frequency power of 40 W, and a high frequency power of 100 W.

Re claim 9, none of the prior art of record discloses the following limitations in combination with the rest of the limitations in the claim: depositing a silicon nitride layer by means of a dual-frequency plasma enhanced CVD process, the CVD process comprising a temperature of 480°C, a pressure in the range 2 Torr to 5 Torr, a low frequency power of 40 W, a high frequency power of 100 W, and precursor gases of silane, ammonia and nitrogen at flow rates in the ratio about 240:3200:4000 sccm, wherein the silicon nitride layer has a vertical to horizontal coverage ratio between 70 to 90 percent.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh B. Duong whose telephone number is (571) 272-1836.

The examiner can normally be reached on 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith, can be reached on (571) 272-2429. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KRD

Zandra V. Smith

Supervisory Patent Examiner

17 NOV. 2006